

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2858455	Quote #:	Sales Order #: 8230063
Customer: PDC ENERGY EBUS	Customer Rep:		
Well Name: Wells Ranch	Well #: 32-5	API/UWI #: 05-123-21963	
Field:	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Svc Supervisor: ROSALES, MATTHEW		MBU ID Emp #: 392095

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
CHAVEZ, JEROME	3	458298	LYNCH, JACK William	3	483039	ROSALES, MATTHEW	3
CHRISTOPHE						John	392095
WARD, SAMUEL	3	478713					
Whitfield							

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11019275C	55 mile	11036298	55 mile	11410470C	55 mile	11605598	55 mile
5707C	55 mile						

Job Hours					
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
06/07/11	3	1.5			
TOTAL					

Total is the sum of each column separately

Job					
Formation Name	Top	Bottom	Called Out	Date	Time
Formation Depth (MD)				07 - Jun - 2011	04:30
Form Type		BHST	On Location	07 - Jun - 2011	08:00
Job depth MD	2000. ft	Job Depth TVD	2000. ft	07 - Jun - 2011	08:42
Water Depth		Mk Ht Above Floor		07 - Jun - 2011	09:52
Perforation Depth (MD)	From	To	Departed Loc	07 - Jun - 2011	11:00

Well Data									
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft
Open Hole				9.				368.	2800.
Production Casing	Unknown		4.5	4.052	10.5		J-55		6937.
Surface Casing	Unknown		8.625	8.097	24.		J-55		368.
TUBING	Unknown		1.25	.671	3.02				2800.

Tools and Accessories									
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth
Guide Shoe					Packer			Top Plug	
Float Shoe					Bridge Plug			Bottom Plug	
Float Collar					Retainer			SSR plug set	
Insert Float								Plug Container	
Stage Tool								Centralizers	

Miscellaneous Materials									
Gelling Agt			Conc		Surfactant		Conc	Acid Type	
Treatment Fld			Conc		Inhibitor		Conc	Sand Type	

Fluid Data									
Stage/Plug #: 1									

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	ClayFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	.0	2.0	
3	CalFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
		59.525 gal/Mgal	CLAYFIX 3, TOTETANK (101583425)						
4	Varicem B1 12#	VARICEM (TM) CEMENT (452009)		sacks	12.	2.18	12.34	2.0	12.34
		12.34 Gal	FRESH WATER						
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	309.0	sacks	13.	1.71	8.84	2.0	8.84
		8.84 Gal	FRESH WATER						
Calculated Values			Pressures		Volumes				
Displacement	1.5	Shut In: Instant	Lost Returns		Cement Slurry		94	Pad	
Top Of Cement	SURFACE	5 Min	Cement Returns		8	Actual Displacement	1.5	Treatment	
Frac Gradient		15 Min	Spacers		32	Load and Breakdown		Total Job	127.5
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount 0 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID	ID	
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2858455	Quote #:	Sales Order #: 8230063
Customer: PDC ENERGY EBUS		Customer Rep:	
Well Name: Wells Ranch	Well #: 32-5	API/UWI #: 05-123-21963	
Field:	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor:	Rig/Platform Name/Num:		
Job Purpose: Recement Service		Ticket Amount:	
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Svc Supervisor: ROSALES, MATTHEW/MBU ID Emp #: 392095		

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/07/2011 04:30							
Pre-Convoy Safety Meeting	06/07/2011 06:10							SAFETY SEND OFF, JOURNEY MANAGEMENT
Depart from Service Center or Other Site	06/07/2011 06:15							RIG IS READY FOR HALLIBURTON
Arrive At Loc	06/07/2011 08:00							
Assessment Of Location Safety Meeting	06/07/2011 08:05							
Pre-Rig Up Safety Meeting	06/07/2011 08:15							
Rig-Up Equipment	06/07/2011 08:20							
Rig-Up Completed	06/07/2011 08:25							
Pre-Job Safety Meeting	06/07/2011 08:30							
Start Job	06/07/2011 08:42							
Test Lines	06/07/2011 08:43		0.5		0.5		3500.0	
Pump Spacer 1	06/07/2011 08:44		2	10	10		1600.0	WATER SPACER WITH CLAYFIX
Pump Spacer 2	06/07/2011 08:50		2	12	22		1046.0	MUDFLUSH
Pump Spacer 1	06/07/2011 08:56		2	10	32		1035.0	WATER SPACER WITH CLAYFIX
Pump Cement	06/07/2011 09:03		2	94	126		1725.0	13#/GAL SLURRY MIXED WITH WATER PROVIDED BY RIG
Pump Displacement	06/07/2011 09:51		2	1.5	127.5		250.0	